

**Patria**

# **Patria** NEMO

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120 mm Mortar System is full potential of modern mortar systems.



**Protected Mobility and Defence Systems**

Protected Mobility and Defence Systems



Through Life Capability



Battlefield and Critical Systems



## EXTREME SURVIVABILITY

Finland is known for high technology and extreme resilience. The harsh nature and limited resources have pushed us to learn and innovate efficiently. Thorough preparation for the future is the backbone of our culture.

Patria has grown from its Finnish heritage to a modern and international defence and technology company with over 100 years of experience. We use resources wisely, create innovative solutions and build intelligent systems that provide extreme survivability in any condition. We work with our customers throughout the entire lifecycle to ensure maximum value. Honest and straightforward co-operation is at the core of our work.

We build exceptional partnerships that last through critical operations. That's what it takes when you stand for your sovereignty.

Trust us, we have been there.

## SUPERIOR PERFORMANCE

Take your mission capabilities to new heights with Patria's future-proof vehicles, defence systems and armament.

At Patria we provide superior solutions to enhance operational capabilities in all conditions. Reliable performance, combined with the unique security of supply experience, makes us your trusted partner.

The best reward to us comes from those who have survived the toughest situations - thanks to the most combat-proven products.

We strengthen your mission capabilities in all conditions.

**Patria - Extreme conditions embedded.**



**Patria NEMO 120 mm Mortar System** is a compact and flexible mortar system for the needs of modern warfare and crisis management, which call for mobility, protection and accuracy. Designed by the industry's top professional, Patria, the lightweight system can be mounted on various platforms, enabling rapid fire support.

Turreted, remote-controlled 120 mm mortar system consists of weapon, loading device, turret, fire control system and ammunition storage, and is fully operational with a platform and ammunition. Its proven weapon technology is based on Patria's 90 years of experience with 120 mm mortars.

Patria Nemo is suitable for many purposes. Thanks to its indirect and direct fire capability, as well as to its Multiple Rounds Simultaneous Impact (MRSI) capabilities, Patria Nemo can be used for selfdefence and various indirect fire missions. Impressive fire support and rapid response with high crew protection - all in one.

### **Comprehensive fire control by sensor-to-shooter operations**

Patria's indirect fire system enables the highest possible readiness for battle and crisis management. Thanks to its network of sensors and situational awareness, Patria's fire control system enables sensor-to-shooter operations.

A forward observer system is used for identifying the target and for acquiring a full view of the situation on the battlefield. The fire control system can provide plans for fire support and fire missions, which are transmitted via tactical data network to the command and control systems. Engagement decisions are made at the fire direction centre, and the Nemo units execute the fire missions - right on target.

### **Patria's indirect fire system for crisis management consists of:**

- weapons
- vehicles
- systems with integrated support functions
  - tactical weather services
  - fire control system
  - communication systems
  - forward observer functions

### **Setting new standards for mortar mobility, protection and firepower both on land and sea**

Patria Nemo is an ideal member of both mechanised fleets as well as of fast moving naval fleets. As a lightweight and remote-controlled system, it completes Patria's proven 120 mm mortar offering. In addition to 8x8-armoured wheeled vehicles and tracked chassis, the turret can be integrated on lighter platforms such as 6x6-armoured wheeled vehicles. On naval applications the ideal platforms are fast moving patrol and coastal vessels.

Patria Nemo releases the full potential of modern mortar systems. Its applicability for land and sea, its operation on the move, its level of protection and firepower and its ability to be part of fast moving units has made Patria Nemo a longawaited solution to customer needs. Joint operations between land and sea are reality - at last.



## Technical specifications

### Turret

Weight 1900 kg

Traverse 360°

Elevation range -3° to +85°

Laying system electrical/manual back-up

Remote-controlled turret

Crew: 2-3

Ammunition on-board: carrier dependent  
typically 50 - 60 rds

### Armament

Mortar 120 mm smoothbore

Barrel length 3000 mm

Loading system electrical/semi-automatic

Recoiling system hydro-pneumatic

Secondary armament integrated RWS, smoke launchers

### Performance

Time to open fire < 25 sec

Time to scoot immediate (Fire-On-the-Move)

Max. rate of fire 10 rds/min

Sustained rate of fire 6 rds/min

First 3 rounds 15 sec

Range 10+ km (ammo dependent)

MRSI up to 5 rds on range of 1,0 to 6,5 km

### Ammunition

All smoothbore mortar ammunition

- Compact, mobile, turreted and remote-controlled mortar system
- High rate of fire
- Excellent crew protection
- Indirect, direct and MRSI capabilities with direct lay functionality
- Network-centric warfare management
- Fire-on-the-move capability
- Rapid deployment
- Modular ballistic protection against infantry weapons, splinters and IEDs
- NBC and muzzle blast protection
- Reduced carrier stresses
- Large on-board ammunition supply
- Compatible with all standard 120 smoothbore mortar ammunition as well as smart guided ammunition
- Full 360° traverse
- Customised and cost-efficient solutions



# Patria

When it is not an option.

[www.patriagroup.com](http://www.patriagroup.com)